

Sushmita Mitra

List of Publications by Citations

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104
papers

4,435
citations

26
h-index

66
g-index

109
ext. papers

5,177
ext. citations

4
avg, IF

5.86
L-index

#	Paper	IF	Citations
104	Gesture Recognition: A Survey. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2007 , 37, 311-324		1081
103	Neuro-fuzzy rule generation: survey in soft computing framework. <i>IEEE Transactions on Neural Networks</i> , 2000 , 11, 748-68		448
102	Robust Radiomics feature quantification using semiautomatic volumetric segmentation. <i>PLoS ONE</i> , 2014 , 9, e102107	3.7	363
101	Data mining in soft computing framework: a survey. <i>IEEE Transactions on Neural Networks</i> , 2002 , 13, 3-14		330
100	Rough-fuzzy collaborative clustering. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2006 , 36, 795-805		188
99	Multi-objective evolutionary biclustering of gene expression data. <i>Pattern Recognition</i> , 2006 , 39, 2464-2477		180
98	Fuzzy multi-layer perceptron, inferencing and rule generation. <i>IEEE Transactions on Neural Networks</i> , 1995 , 6, 51-63		120
97	Shadowed c-means: Integrating fuzzy and rough clustering. <i>Pattern Recognition</i> , 2010 , 43, 1282-1291	7.7	105
96	Rough fuzzy MLP: knowledge encoding and classification. <i>IEEE Transactions on Neural Networks</i> , 1998 , 9, 1203-16		103
95	Evolutionary Rough Feature Selection in Gene Expression Data. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2007 , 37, 622-632		101
94	An evolutionary rough partitive clustering. <i>Pattern Recognition Letters</i> , 2004 , 25, 1439-1449	4.7	101
93	Rough-fuzzy MLP: modular evolution, rule generation, and evaluation. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2003 , 15, 14-25	4.2	66
92	Fuzzy sets in pattern recognition and machine intelligence. <i>Fuzzy Sets and Systems</i> , 2005 , 156, 381-386	3.7	65
91	Knowledge-based fuzzy MLP for classification and rule generation. <i>IEEE Transactions on Neural Networks</i> , 1997 , 8, 1338-50		56
90	Web mining: a survey in the fuzzy framework. <i>Fuzzy Sets and Systems</i> , 2004 , 148, 5-19	3.7	53
89	Staging of cervical cancer with soft computing. <i>IEEE Transactions on Biomedical Engineering</i> , 2000 , 47, 934-40	5	51
88	Logical operation based fuzzy MLP for classification and rule generation. <i>Neural Networks</i> , 1994 , 7, 353-373		51

87	Fuzzy MLP based expert system for medical diagnosis. <i>Fuzzy Sets and Systems</i> , 1994 , 65, 285-296	3.7	47
86	Clustering and its validation in a symbolic framework. <i>Pattern Recognition Letters</i> , 2003 , 24, 2367-2376	4.7	46
85	Medical image analysis for cancer management in natural computing framework. <i>Information Sciences</i> , 2015 , 306, 111-131	7.7	43
84	Satellite image segmentation with Shadowed C-Means. <i>Information Sciences</i> , 2011 , 181, 3601-3613	7.7	43
83	Genetic networks and soft computing. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2011 , 8, 94-107	3	41
82	FRBF: A Fuzzy Radial Basis Function Network. <i>Neural Computing and Applications</i> , 2001 , 10, 244-252	4.8	29
81	Improving classification performance using fuzzy MLP and two-level selective partitioning of the feature space. <i>Fuzzy Sets and Systems</i> , 1995 , 70, 1-13	3.7	29
80	Single seed delineation of brain tumor using multi-thresholding. <i>Information Sciences</i> , 2016 , 330, 88-103	7.7	28
79	A Novel GBM Saliency Detection Model Using Multi-Channel MRI. <i>PLoS ONE</i> , 2016 , 11, e0146388	3.7	28
78	Symbolic classification, clustering and fuzzy radial basis function network. <i>Fuzzy Sets and Systems</i> , 2005 , 152, 553-564	3.7	26
77	Automated 3D segmentation of brain tumor using visual saliency. <i>Information Sciences</i> , 2018 , 424, 337-353	7.7	25
76	Feature selection using structural similarity. <i>Information Sciences</i> , 2012 , 198, 48-61	7.7	25
75	Deep Learning for Screening COVID-19 using Chest X-Ray Images 2020 ,		25
74	Evolutionary modular design of rough knowledge-based network using fuzzy attributes. <i>Neurocomputing</i> , 2001 , 36, 45-66	5.4	24
73	Recursive-Rule Extraction Algorithm With J48graft And Applications To Generating Credit Scores. <i>Journal of Artificial Intelligence and Soft Computing Research</i> , 2016 , 6, 35-44	5.1	21
72	Gene interaction □An evolutionary biclustering approach. <i>Information Fusion</i> , 2009 , 10, 242-249	16.7	21
71	Blind Entity Identification for Agricultural IoT Deployments. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 3156-3163	7.3	20
70	Iris localization using rough entropy and CSA: A soft computing approach. <i>Applied Soft Computing Journal</i> , 2018 , 67, 61-69	7.5	19

69	Recognizing Hand Gestures of a Dancer. <i>Lecture Notes in Computer Science</i> , 2011 , 186-192	0.9	18
68	Fuzzy clustering with biological knowledge for gene selection. <i>Applied Soft Computing Journal</i> , 2014 , 16, 102-111	7.5	17
67	Natural computing methods in bioinformatics: A survey. <i>Information Fusion</i> , 2009 , 10, 211-216	16.7	17
66	Hidden Markov Models, grammars, and biology: a tutorial. <i>Journal of Bioinformatics and Computational Biology</i> , 2005 , 3, 491-526	1	17
65	Evolutionary biclustering of gene expressions. <i>Ubiquity</i> , 2006 , 2006, 1-12	0.3	17
64	. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2012 , 42, 1590-1599		16
63	Fuzzy versions of Kohonen's net and MLP-based classification: Performance evaluation for certain nonconvex decision regions. <i>Information Sciences</i> , 1994 , 76, 297-337	7.7	16
62	Rough-Fuzzy Clustering: An Application to Medical Imagery 2008 , 300-307		16
61	Reduct Generation and Classification of Gene Expression Data 2006 ,		15
60	Multi-objective optimization of shared nearest neighbor similarity for feature selection. <i>Applied Soft Computing Journal</i> , 2015 , 37, 751-762	7.5	14
59	Noisy fingerprint classification using multilayer perceptron with fuzzy geometrical and textural features. <i>Fuzzy Sets and Systems</i> , 1996 , 80, 121-132	3.7	14
58	A new approach to three ensemble neural network rule extraction using recursive-rule extraction algorithm 2013 ,		13
57	Brain Tumor Detection and Classification from Multi-sequence MRI: Study Using ConvNets. <i>Lecture Notes in Computer Science</i> , 2019 , 170-179	0.9	12
56	Integrating Radio Imaging With Gene Expressions Toward a Personalized Management of Cancer. <i>IEEE Transactions on Human-Machine Systems</i> , 2014 , 44, 664-677	4.1	12
55	Possibilistic Approach to Biclustering: An Application to Oligonucleotide Microarray Data Analysis. <i>Lecture Notes in Computer Science</i> , 2006 , 312-322	0.9	12
54	Feature Selection Using Radial Basis Function Networks. <i>Neural Computing and Applications</i> , 1999 , 8, 297-302	4.8	12
53	Novel Volumetric Sub-region Segmentation in Brain Tumors. <i>Frontiers in Computational Neuroscience</i> , 2020 , 14, 3	3.5	11
52	Computational Intelligence in Bioinformatics. <i>Lecture Notes in Computer Science</i> , 2005 , 134-152	0.9	11

51	Multi-planar Spatial-ConvNet for Segmentation and Survival Prediction in Brain Cancer. <i>Lecture Notes in Computer Science</i> , 2019 , 94-104	0.9	10
50	Fuzzy dynamic clustering algorithm. <i>Pattern Recognition Letters</i> , 1990 , 11, 525-535	4.7	10
49	Feature Selection Through Message Passing. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 4356-4366	10.2	9
48	2017 ,		9
47	Evolutionary Modular MLP with Rough Sets and ID3 Algorithm for Staging of Cervical Cancer. <i>Neural Computing and Applications</i> , 2001 , 10, 67-76	4.8	8
46	Fingerprint classification using a fuzzy multilayer perceptron. <i>Neural Computing and Applications</i> , 1994 , 2, 227-233	4.8	8
45	Application of Rough Sets in Pattern Recognition 2007 , 151-169		8
44	Evolutionary Biclustering with Correlation for Gene Interaction Networks 2007 , 416-424		8
43	Neuro-Fuzzy Expert Systems: Relevance, Features and Methodologies. <i>IETE Journal of Research</i> , 1996 , 42, 335-347	0.9	7
42	An MLP-based model for identifying qEEG in depression. <i>International Journal of Bio-medical Computing</i> , 1996 , 43, 179-87		7
41	Clustering large data with uncertainty. <i>Applied Soft Computing Journal</i> , 2013 , 13, 1639-1645	7.5	6
40	Special Issue on Bioinformatics. <i>Pattern Recognition</i> , 2006 , 39, 2265-2266	7.7	6
39	Glioma Classification Using Deep Radiomics. <i>SN Computer Science</i> , 2020 , 1, 1	2	6
38	Decision tree for modeling survival data with competing risks. <i>Biocybernetics and Biomedical Engineering</i> , 2019 , 39, 697-708	5.7	5
37	Clustering of Symbolic Data and Its Validation. <i>Lecture Notes in Computer Science</i> , 2002 , 339-344	0.9	5
36	A connectionist approach to SODAR pattern classification. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2004 , 1, 42-46	4.1	4
35	Modular Rough Fuzzy MLP: Evolutionary Design. <i>Lecture Notes in Computer Science</i> , 1999 , 128-136	0.9	4
34	Iris Segmentation Using Interactive Deep Learning. <i>IEEE Access</i> , 2020 , 8, 219322-219330	3.5	4

33	Collaborative Rough Clustering. <i>Lecture Notes in Computer Science</i> , 2005 , 768-773	0.9	4
32	Neuro-Fuzzy Expert Systems: Overview with a Case Study 1994 , 121-143		4
31	Fuzzy radial basis function network: a parallel design. <i>Neural Computing and Applications</i> , 2004 , 13, 261-268		3
30	Special Issue on Web mining using soft computing. <i>Fuzzy Sets and Systems</i> , 2004 , 148, 1-3	3.7	3
29	Ensemble of CNNs for Segmentation of Glioma Sub-regions with Survival Prediction. <i>Lecture Notes in Computer Science</i> , 2020 , 37-49	0.9	3
28	Evolutionary Fuzzy Biclustering of Gene Expression Data 2007 , 284-291		3
27	ROI Segmentation from Brain MR Images with a Fast Multilevel Thresholding. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 249-259	0.4	2
26	Facial Expressions: A Cross-Cultural Study 2015 , 69-87		2
25	Fuzzy texture descriptors for early diagnosis of osteoarthritis 2013 ,		2
24	Evolutionary-Rough Feature Selection for Face Recognition. <i>Lecture Notes in Computer Science</i> , 2010 , 117-142	0.9	2
23	Feature extraction and connectionist classification of SODAR echograms. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2006 , 3, 19-22	4.1	2
22	Shadowed Clustering for Speech Data and Medical Image Segmentation. <i>Lecture Notes in Computer Science</i> , 2008 , 475-484	0.9	2
21	Fuzzy volumetric delineation of brain tumor and survival prediction. <i>Soft Computing</i> , 2020 , 24, 13115-13134	3.34	2
20	Incorporating Fuzziness to CLARANS. <i>Lecture Notes in Computer Science</i> , 2009 , 122-127	0.9	2
19	FuzzyCIE: fuzzy colour image enhancement for low-exposure images. <i>Soft Computing</i> , 2020 , 24, 2151-2165	1.75	2
18	Extracting gene-gene interactions through curve fitting. <i>IEEE Transactions on Nanobioscience</i> , 2012 , 11, 402-9	3.4	1
17	Gene selection using biological knowledge and fuzzy clustering 2012 ,		1
16	Rough knowledge-based network, fuzziness and classification. <i>Neural Computing and Applications</i> , 1998 , 7, 17-25	4.8	1

15	Rough Neural Methodologies in Granular Computing	657-669		1
14	Incorporation of Fuzziness in ID3 and Generation of Network Architecture. <i>Neural Computing and Applications</i> , 2001 , 10, 155-164		4.8	1
13	Cross-Correlation and Evolutionary Biclustering: Extracting Gene Interaction Sub-networks. <i>Lecture Notes in Computer Science</i> , 2009 , 199-204		0.9	1
12	Multi-objective Evolutionary Feature Selection. <i>Lecture Notes in Computer Science</i> , 2009 , 74-79		0.9	1
11	A novel adaptive k-NN classifier for handling imbalance: Application to brain MRI. <i>Intelligent Data Analysis</i> , 2020 , 24, 909-924		1.1	1
10	Feature Selection, Classification and Rule Generation Using Rough Sets. <i>Advanced Information and Knowledge Processing</i> , 2012 , 51-76		0.3	1
9	Soft computing and intelligent systems: Techniques and applications. <i>Journal of Intelligent and Fuzzy Systems</i> , 2018 , 34, 1237-1241		1.6	
8	Implementation of fault simulation and testing of combinational circuits. <i>International Journal of Electronics</i> , 1989 , 66, 665-678		1.2	
7	Gene Interactions Sub-networks and Soft Computing. <i>Studies in Computational Intelligence</i> , 2009 , 313-327	3.8		
6	Expert systems in soft computing paradigm. <i>Neural Network Systems Techniques and Applications</i> , 1998 , 211-241			
5	A Least Squares Fitting-Based Modeling of Gene Regulatory Sub-networks. <i>Lecture Notes in Computer Science</i> , 2009 , 165-170		0.9	
4	Aggregation of Correlation Measures for the Reverse Engineering of Gene Regulatory Sub-networks. <i>Lecture Notes in Computer Science</i> , 2012 , 235-242		0.9	
3	DeepSGP: Deep Learning for Gene Selection and Survival Group Prediction in Glioblastoma. <i>Electronics (Switzerland)</i> , 2021 , 10, 1463		2.6	
2	Deep learning for noninvasive management of brain tumors	2022 , 15-34		
1	Feature Selection Using Rough Sets	2006 , 1-20		